

ABSTRACT

A material supply for a material application system such as a powder coating application system includes a feed hopper in the form of a duct. The duct is connectable to negative pressure during a color change process and is disconnected from the negative pressure during a spray application process. The negative pressure can be provided from a powder overspray recovery system such as an after filter blower. Dampers are provided to control air flow through the hopper duct and to allow the duct to be at ambient pressure during a supply mode of operation. The hopper duct also includes a suction interface for pumps, in the form of a siphon ring, as well as a fluidizing function. A removable sieve is provided with an optional vibration feature. Powder may be added to the duct via an access door or transfer pumps for new powder and/or reclaimed powder overspray.